



US006434696B1

(12) **United States Patent**  
**Kang**

(10) **Patent No.:** **US 6,434,696 B1**

(45) **Date of Patent:** **Aug. 13, 2002**

(54) **METHOD FOR QUICKLY BOOTING A  
 COMPUTER SYSTEM**

(75) **Inventor:** Seong-Cheol Kang, Kyunggido (KR)

(73) **Assignee:** LG Electronics Inc., Seoul (KR)

(\*) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) **Appl. No.:** 09/309,275

(22) **Filed:** May 11, 1999

(30) **Foreign Application Priority Data**

May 11, 1998 (KR) ..... 98-17715

(51) **Int. Cl.<sup>7</sup>** ..... G06F 9/445

(52) **U.S. Cl.** ..... 713/2

(58) **Field of Search** ..... 713/2

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

5,564,054 A \* 10/1996 Bramnick et al. .... 713/2  
 5,745,669 A \* 4/1998 Hugard et al. .... 714/3

\* cited by examiner

*Primary Examiner*—Thomas M. Heckler

(74) *Attorney, Agent, or Firm*—Birch, Stewart, Kolasch & Birch, LLP

(57) **ABSTRACT**

A method for quickly booting a personal computer system using boot configuration information on memory and the attached devices that was created and saved in a hard disk at the preceding boot process. The method for a quick boot process includes the steps of performing a power-on self test (POST) operation when a personal computer system is powered on or a reset button is pressed; performing a normal boot process after the POST operation; saving the contents of memory and the status of the attached devices to a hard disk; checking if a reboot is requested; restoring the saved boot configuration information from the hard disk, after POST is completed during the reboot process; checking whether or not an initial device configuration file and/or an automatic batch file were changed; and executing commands in the two files and saving a newly created boot configuration information to the hard disk for future boot. The personal computer system, may reboot quickly because of omission of execution of the initial device configuration file and the automatic batch file.

**18 Claims, 6 Drawing Sheets**

